

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/045418 A1

(51) International Patent Classification⁷: **G01N 29/04**

(21) International Application Number:
PCT/NL2004/000784

(22) International Filing Date:
8 November 2004 (08.11.2004)

(25) Filing Language: Dutch

(26) Publication Language: English

(30) Priority Data:
1024726 6 November 2003 (06.11.2003) NL

(71) Applicant (for all designated States except US): **RÖNTGEN TECHNISCHE DIENST B.V.** [NL/NL]; Delftweg 144, NL-3046 NC Rotterdam (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **VAN DER ENT, Jan** [NL/NL]; Willeke Joostenstraat 19, NL-4744 BL Bosschenhoofd (NL).

(74) Agent: **WINCKELS, J., H., F.**; Vereenigde, Johan de Witlaan 7, NL-2517 JR Den Haag (NL).

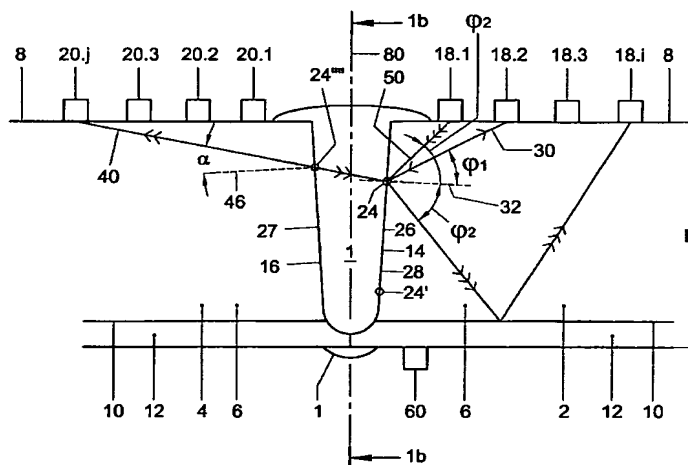
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR CHECKING A WELD BETWEEN TWO METAL PIPELINES



(57) Abstract: A method for checking a weld (1) between a first metal pipeline (2) and a second metal pipeline (4), in particular an austenitic weld, the method comprising at least the following method steps: (a) a first ultrasonic beam (30) is transmitted to an interface (26) between the weld and the first pipeline situated on a first side (28) of the weld; (b) a reflection of the first ultrasonic beam (30) on the interface (26) situated on the first side (28) of the weld is received and a first received signal corresponding thereto is generated; (c) a second ultrasonic beam (40) different from the first ultrasonic beam (30) is transmitted to the interface (26) situated on the first side (28) of the weld; (d) a reflection of the second ultrasonic beam (40) on the interface (26) situated on the first side (28) of the weld is received and a second received signal corresponding thereto is generated; (e) the first received signal and the second received signal are processed in combination for checking the weld (1).